

THE IDEAL CHAIN WRENCH.

Kroeschell Bros. Co., 29-55 E. Erie Street, Chicago, Ill., are the manufacturers of the Ideal Chain Wrench; a general view of its parts is presented in cut Fig. 1. It is claimed to be the result of many years' reasoning, experimenting and perfecting by a man whose life-work has been practical pipe-fitting. It is broadly and unequivocally guaranteed to do all the work which any of its predecessors on the market have done, and to perform in addition thereto some other work of the highest importance which no chain wrench has executed heretofore. The jaws A B, illustrated in the cut, are drop-forged of the best quality of tool steel. They can be tempered and sharpened

by any blacksmith, whenever required, and used until worn out, when new ones can be obtained and attached to the old handle. The handle C is made of spring steel. It is a model of strength and efficiency, combined with lightness. However, if desired, other handles can be substituted, and even an ordinary crow-

ped article cannot be crushed; the inner biting surface has jaws of the shape of a wide V, which are specially designed to grip beaded fittings or valves, flanges and castings of odd form. Among the points of interest referred to in the construction of this wrench in addition to those mentioned, is the recess of

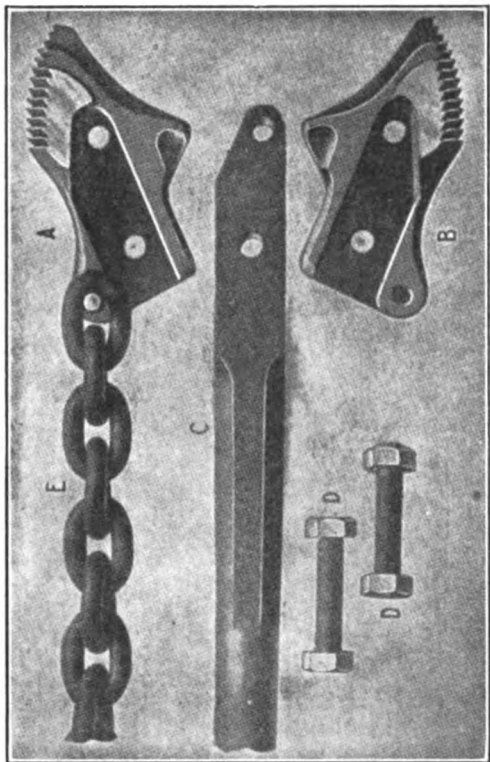
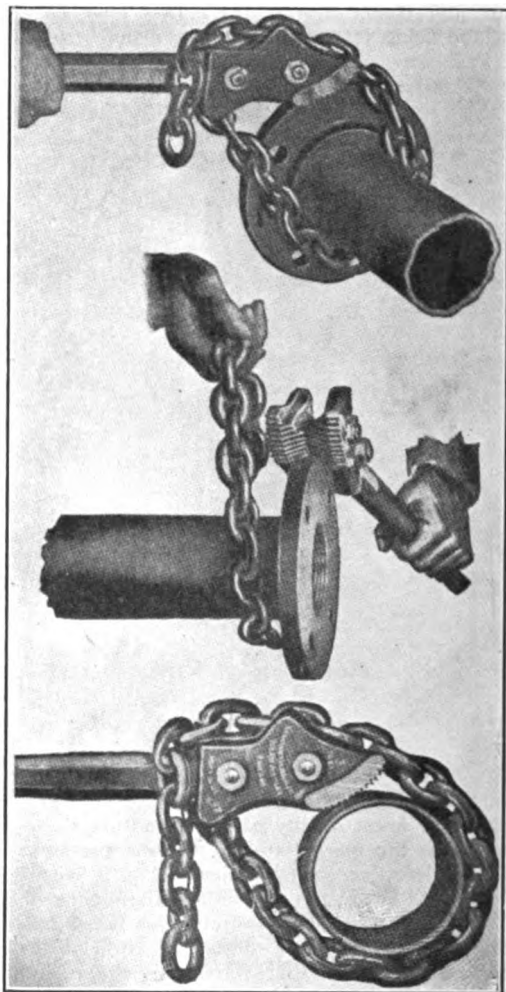


FIG. 1.—THE PARTS OF THE WRENCH.

bar can be easily fitted into the jaws. The two double nuts DD are all that is required to hold together the parts of the Ideal Chain Wrench. The most important improvement of the Wrench over the old styles is embodied in the construction of the jaws



UNIQUE USES OF WRENCH.



THE MECHANISM OF THE JAWS.

A and B. For the first time in the history of chain wrench manufacturing the entire mechanism of the tool has been concentrated in these jaws, which will grip not only square but also round, flat, oblong and irregular surfaces. Nearly all the old makes have side jaws with hollow space between. No beaded fitting, valve or narrow flange can be gripped with the jaw thus constructed. The Ideal Wrench presents a radical departure from all the existing types. It has a double biting surface in either of its jaws; the outer one has flat serrated edges, which will grip the pipe securely, the same as the best makes of ordinary chain wrenches, and which are so arranged that the grip-

hollow between the inner edge of the gripping jaws and the chain support. This enables the operator to take up all slack in the chain and to retain a proper grip anywhere on surface of jaws. Ease of repair. The removal of a steel pin enables the operator to discard any broken links. Automatic chain lock. A pull of the chain causes it to drop into the lock, with all slack taken up. No possibility of its falling out, even if in an inverted position. There is exchangeability of parts, with mechanism concentrated in the jaws. This permits the jaws to be fitted to any bar or old discarded wrench handle. It is built of tool-steel drop forgings throughout, which makes it more durable than wrenches are usually made, and in this case it is absolutely guaranteed.